Figure 1. Haze formation, Five different Production Lots of PC siloxane co-polym

Lot	A	В	၁	a	Ш
% siloxane	9	9	5.1	4.9	4.8
WW	22814	23028	22843	22371	22674
Haze, 620 F, std.	2.3	2.8	1.5	1.4	1.4
Haze, 620 F, 5 min dwell	14	24.9	2.4	3.1	4.1
Haze, 620 F, 10 min dwell	36	68.3	4.3	11.6, 3.0	13.5

Figure 2: The effect of Various Phosphorus-based Acids on Haze Formation in PC siloxane Co-polymer on Abusive Molding (All phosphorus acids evaluated at equivalent molar levels).

Ex. 6	100%			8.1 ppm		1.5		3.9	7.91		7.72	6626.0	-8.5		1.5	5.4	12.8	15.5	20.6	21.9	40.6	42.2	48.2	53.5
Ex. 5	100%			3.24 ppm		1.4		1.4	8:38		8.08	6404.0	-10.0		1.4	5.6	10.3	13.4	25.9	34.1	36.7	36.4	40.6	43.9
Ex. 4	100%		2.74 ppm			1.3	•	1.4	 8.50		7.95	6425.0	-12.0		1.3	4.5	8.2	11.7	22.1	29.3	31.7	31.2	36.3	38.8
Ex. 3	100%		1.08 ppm			1.6		1.1	 8.46		8.01	6316.0	-13.0		1.6	4.2	7	8.7	16.3	22.2	23.8	23.4	26.7	29.1
Ex. 2	100%	2.25 ppm				1.8	•	1.9	8.74		8.47	6168.0	-12.0		1.8	5.1	8.5	10.1	16.1	22	23.7	25.2	28.5	30.8
Ex. 1	100%	0.9 mgm				2.3		23.3	9.21	,	9.01	5990.0	-13.0		2.3	6.1	6.6	11.6	14.8	20.3	22.6	23.5	26.1	27.6
Comp Ex 1	100%					4.4		76.1	11.17		10.26	5516.0	-14.0		4.4	8.3	12.4	13.4	16.5	18.9	24.6	25.9	28.6	30.1
	PC siloxane , lot A	H3P03	H3P04	MZP(monozinc phosphate)		620 F, std cycle % haze		620 F, 10 min dwell, % haze	MVR, 18 min Dwell		MVR, 6 min Dwell	300 C, viscosity, P	% Change, 30 min , 300 C		620 F, std cycle % haze	% haze, autoclave, 24 hrs	48 hrs	72 hrs	120 hrs	144 hrs	168 hrs	192 hrs	216 hrs	240 hrs

MW, 240 hrs (initial MW,Comp. Ex. 1, 22308)

Figure 3. Repeat Testing of H3PO3 in a Different lot of PC-siloxane Resin: Testing the Effect of H3PO3 of a lot of Resin that Exhibits Relatively Low Haze on Abusive Molding

Comp.Ex 3	100%	0.0	0.0	9.56	00.6	1.2	8.8	12.9	****	1.2	2.1	3.1	4.5	8	8.7	9.6	12.4	
Ex 8	100%	2.25 ppm		90.6	8.85	1.0	1.0	9'0		1	7	2.8	9.6	7.3	8.1	8.4	6	
Ex 7	100%	0.9 ppm		9.43	8.97	1.2	1.0	1.0		1	1.8	5.6	4.2	4.4	4.8	5.4	6.3	
Comp. Ex.2	100%	0.00	00.0	10.16	8.94	1.4	2.1	7.0		1.3	2.1	2.6	2.6	3.5	3.9	3.9	4.9	
	Lot E	E048H	butyl tosylate	MVR, 18 min Dwell	MVR, 6 min Dwell	620 F, std cycle	620 F, 5 min dwell	620 F, 10 min dwell		620 F, std cycle	24 hrs	48 hrs	72 hrs	96 hrs	120 hrs	144 hrs	168 hrs	

Figure 4: Multilot Testing of H3PO3 in Five Different Lots of PC-siloxane Resin to Demonstrate the Generality of the Stabilization Effect

Ex. 18					100%	2.25 ppm			1.4	1.6	1.8
					100%	. mdd 6.0			1.5	2.1	2.7
Comp Ex. 8 Ex. 17					100%	00.0	4.9%	23,427	1.4	1.7	4.7
Ex. 16 C				100%		2.25 ppm			1.1	1.2	1.3
				100%		0.9 ppm 2.25 ppm			1.3	1.4	1.7
Comp Ex. 7 Ex.15				100%		0.00	2.0%	25,062	1.6	1.9	3.4
Ex. 14 (100%			2.25 ppm			1.6	1.7	1.8
		•	100%			0.9 ppm			1.9	2.1	2.8
Comp Ex. 6 Ex.13			100%			0.00	4.9%	20.877	2.2	3.2	14.1
Ex.12 (100%				2.25 ppm			2.4	2.5	2.6
		100%				0.9 ppm 2.25 ppm			2	2.4	က
Comp Ex. 5 Ex. 11		100%			,	00.0	5.2%	20,445	2.2	3.2	10.7
Ex. 10	100%					2.25 ppm			1.5, 2	1.9, 2.6	3.3, 7.3
Ex. 9	100%					0.9 ppm 2.25			1.8, 1.9	2.5, 2.8	7.2, 10.8 3.3, 7
Comp Ex. 4 Ex. 9	%001					0.00	4.7%	18,563	2.1, 2.2	2.4,5.1	26.6,29.1
	Lot F	Lot G	Lot H	Lot	Lot	нзРоз	% siloxane	MW	%Haze, 620 F, std cycle 2.1, 2.2	%Haze, 620 F, 5 min dwell 2.4,5.1	%Haze, 620 F, 10 min dwell 26.6,29.1

Lot F was tested in duplicate in separate experiments.